



Communities
for Sciences

Dissemination event

The long road towards Inclusion in Science Education

Flemish Parliament
27th October 2023

Communities for Sciences (C4S) –
Towards promoting an Inclusive
Approach in Science Education¹⁷



Funded by
the European Union



Welcome

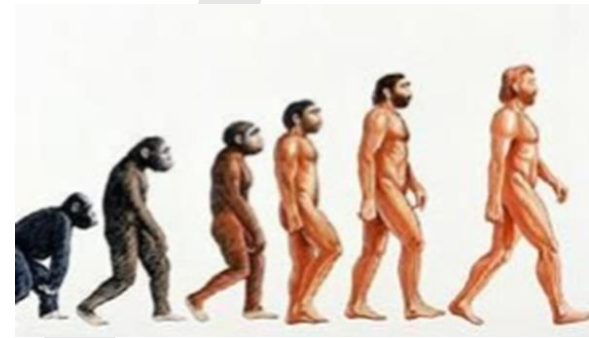
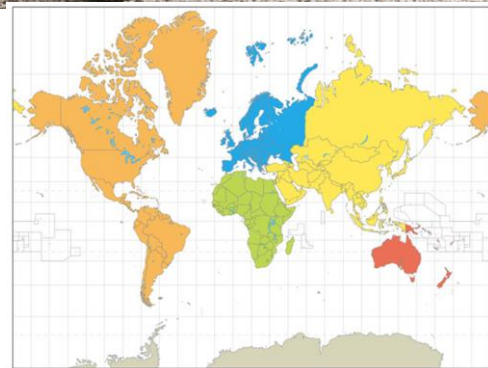
1. Rationale of the project
2. General overview
3. Governance structure
4. Key features and moments
5. Impact: Main products and processes
6. Future outcomes and paths



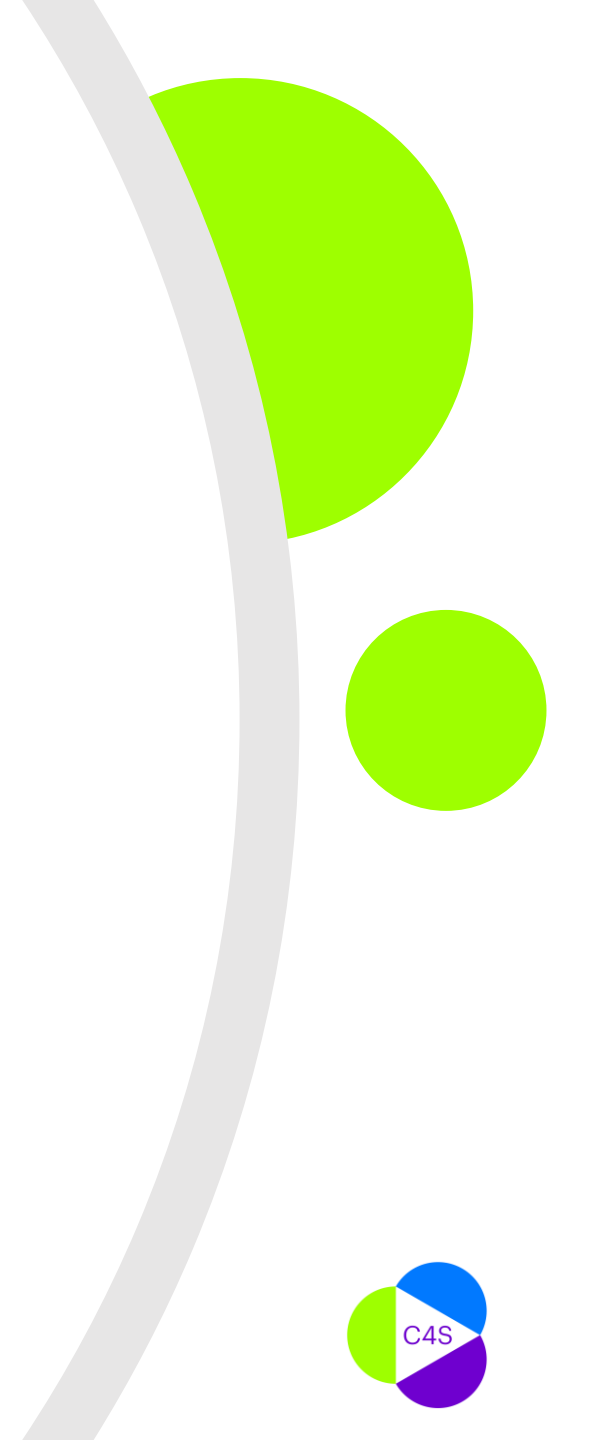
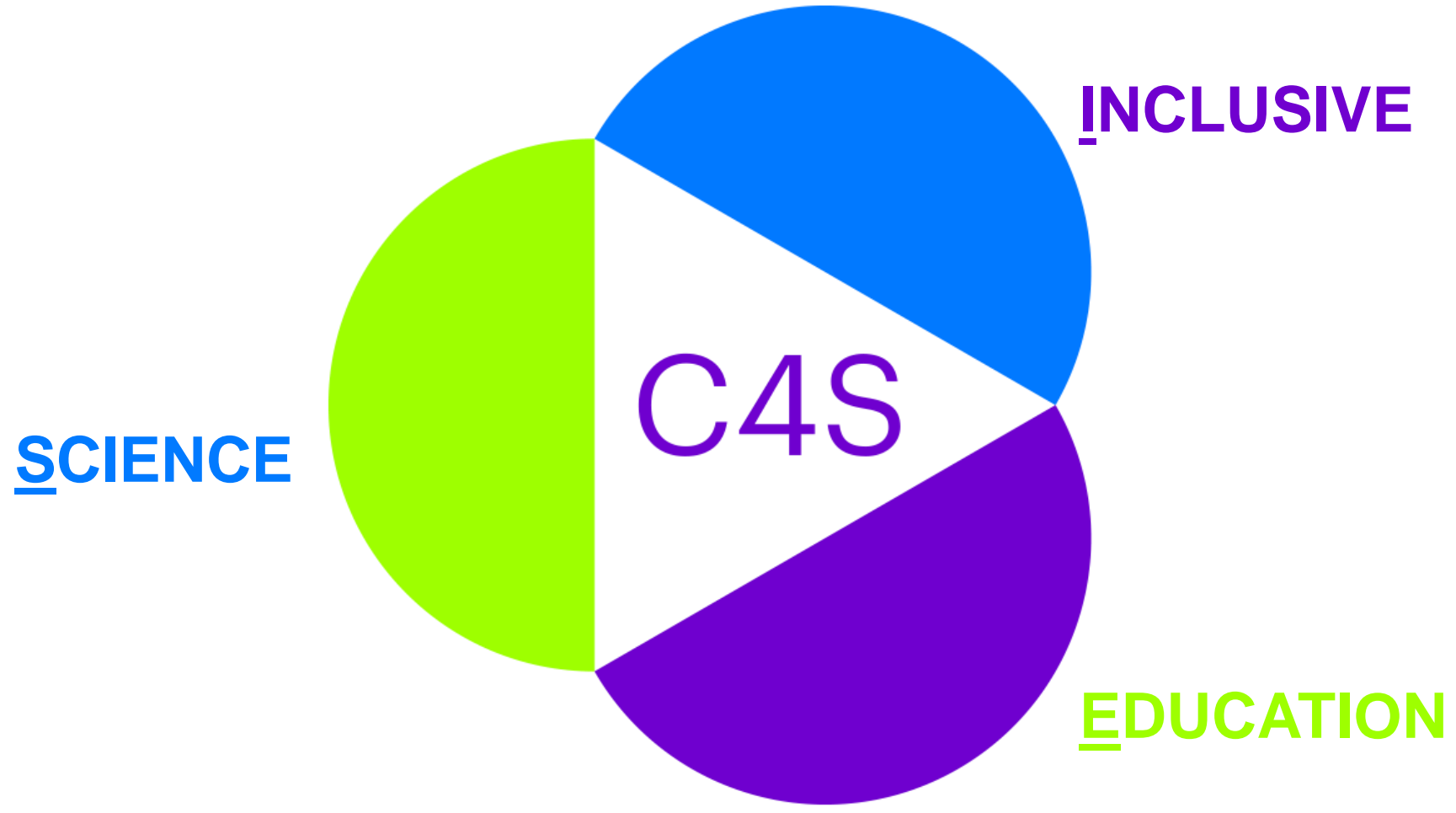
1. Rationale of the project

Social imaginaries in science

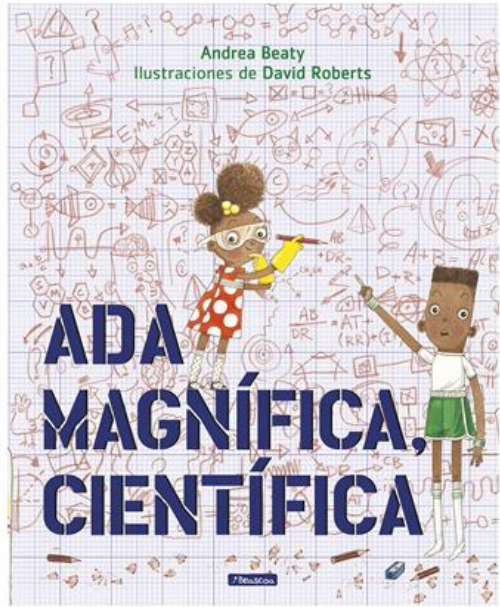
Education and social contexts



1. Rationale of the project





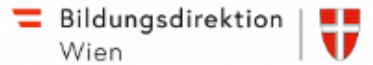








1. Rationale of the project



1. DIBUIXA UNA PERSONA QUE TREBALLA EN CIÈNCIA



1. General overview

 UNIVERSITAT DE VIC UNIVERSITAT CENTRAL DE CATALUNYA	 UNIVERSITAT DE VIC UNIVERSITAT CENTRAL DE CATALUNYA	
FUB (Manresa campus UVic-UCC)	UVic (Vic campus UVic-UCC)	Bildungsdirektion fuer Wien
 RCE Vienna <small>Regional Centre of Expertise on Education for Sustainable Development</small>		 CITTÀ DI SESTO SAN GIOVANNI <small>MEDAGLIA D'ORO AL VALOR MILITARE</small>
Wirtschaftsuniversitat Wien	Galileo Progetti	Comune di Sesto San Giovanni
 NEW BULGARIAN UNIVERSITY	 erasmus <small>HOGESCHOOL BRUSSEL</small>	
New Bulgarian University	Erasmushogeschool Brussel	IB Hochschule Berlin
 LUND UNIVERSITY	 BICOCCA	<h1>Partnership & Team</h1>
Lunds Universitet	Università degli Studi di Milano-Bicocca	

1. General overview



COMMUNITIES FOR SCIENCES

Towards promoting an inclusive approach in Science Education

[About C4S](#)

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partners

6

hubs

8

countries

3

years

H2020-SwafS-2018-2020
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End date: 30/11/2023

www.communities-for-sciences.eu



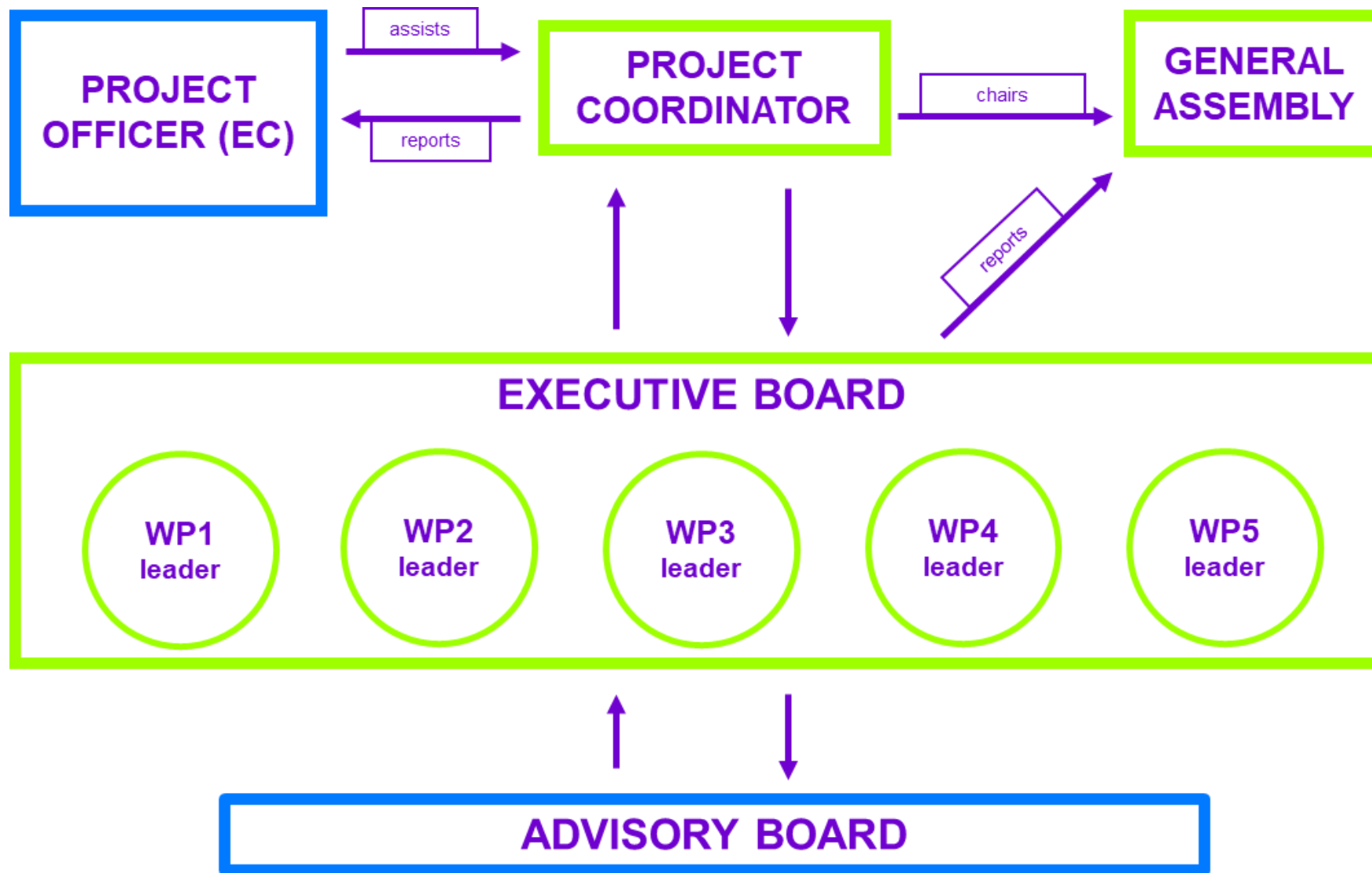
1. General overview

Inclusion in a diverse Europe; inclusion in diverse settings

Target Group	Country & partner
Migrant contexts	<ul style="list-style-type: none">• Belgium (Erasmus Hogheschool Brussels)• Austria (RCE Vienna & Bildungsdirektion Wien)• Manresa – Vic (Fundació Universitària del Bages & UVic-UCC)
Roma communities	<ul style="list-style-type: none">• Hungary (Galileo Progetti Kft)• Bulgaria (New Bulgarian University)
Children with disability	<ul style="list-style-type: none">• Italy (Università Milano Bicocca & Sesto San Giovanni-Giocheria Laboratori)



2. Governance Structure



2. Governance Structure



WP1. Coordination and management
Leader: FUB (campus Manresa - UVic-UCC)



WP2. RRI and Communities Assessment
Leader: RCE Vienna



WP3. Hubs Coordination and Transference
Leader: EhB



WP4. Research Management and Pilots
Leader: Università degli Studi di Milano-Bicocca



WP5. Communication and Dissemination
Leader: FUB (campus Manresa - UVic-UCC)



WP6. Ethics
Leader: FUB (campus Manresa - UVic-UCC)



2. Governance Structure

A Hub is a living being...

A big nucleus integrated by partners and supporters

- Research on barriers, stereotypes and good practices
- Outreach and pedagogical work.

Science education activities (development, test and pedagogical activities)

Outputs (exhibitions, pilot results and lab findings).

A micronucleus with scientists or science-related specialist from vulnerable groups.

- Support science education activities
- Take part in workshops and pilots to policymakers and institutions

Societal engagement activities to involve the whole community in the project's aims.

Surrounding the Hub, the RRI & Communities' Assessment watches over good practices within in.

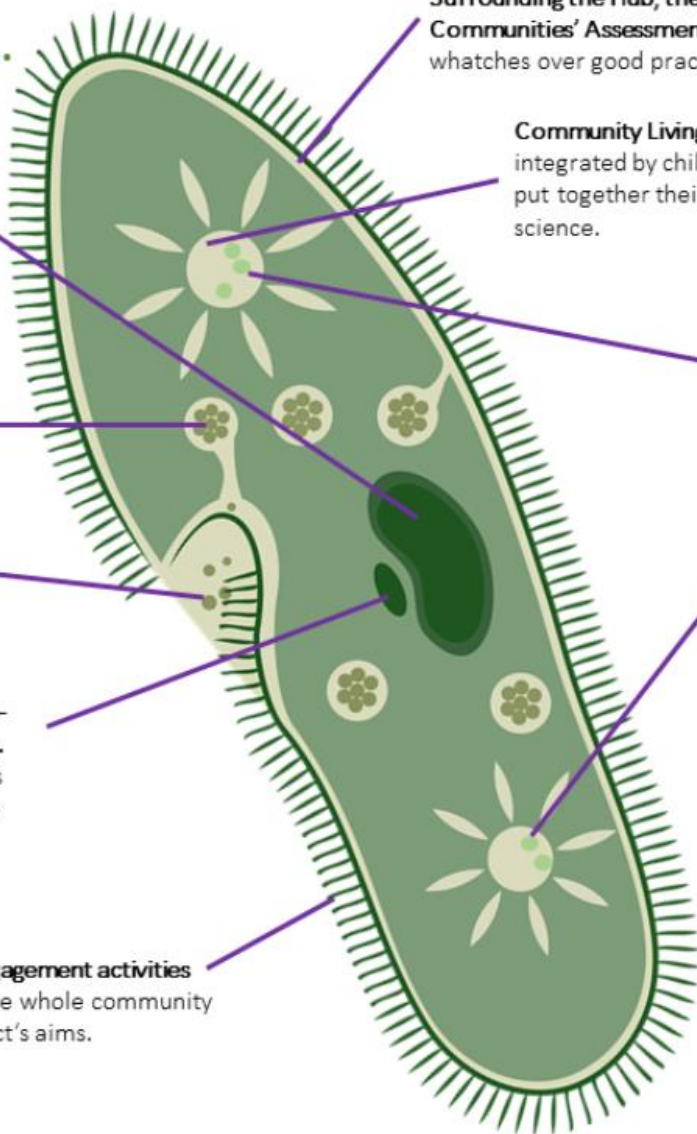
Community Living Labs: communities of enquiry integrated by children, families and educators that put together their knowledge and creativity to foster science.

Pilots developed within the community living labs.

It is born as a result from, and connected to, a specific surrounding environment.

It grows and multiplies itself in the appropriate environment.

It disappears when its creative energy collapses.



4. Key features and moments

YEAR 1

- Setting up the Hubs & Trainings, coordinating core views,...
- Set up structure of Advisory Board
- Blindspot detection on RRI
- Literature Review
- 1st year protocols (Hubs, pilot activities,...)
- Strategic alliances and local & international activities (conferences, webinars,...)
- Transferability activities & communication/dissemination



4. Key features and moments

YEAR 2

- Research process, pilot activities & data gathering
- Follow-up Hub & local liasons & interlink
- Setting up a White book on Inclusive Science Education (structure, aims, organisation,...)
- Setting up a Style Guide on Inclusive Science Communication (structure, aims, organisation,...)
- Setting up IOISE – International Observatory on Inclusive Science Education (structure, aims, organisation,...)
- Transferability activities & communication/dissemination



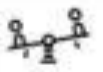







4. Key features and moments

YEAR 3

- Wrap up pilots & research analysis
- Keep track of Hubs (liaisons, impact/consolidation, interlink...)
- Co-design & submit whitebook (leadership of RCE)
- Co-design & submit Style Guide (with support of AB members)
- Co-design International Observatory on Inclusive Science Education (IOISE)
- Transferability activities & communication/dissemination



5. Impacts: processes and main products

	Children and youth		Families		Civil society / NGOs
	Members of vulnerable communities		Educators		Policy makers
	Scientists		Universities		Companies / Businessmen / Businesswomen

- Detection of needs, barriers and allies
- Training and generating awareness
- Outreach and active search of inclusive pedagogical materials
- Opportunities and co-decisory situations
- Action, enjoyment, questioning, transferring
- Continuity and opening windows and doors



5. Impacts: processes and main products

Communicating voices and generating new pedagogical materials

Zinthia Palomino
Periodista

Andrea Khalfaoui Larrañaga
Doctora experta en Interculturalitat

Jerry Tchadie
Director de Investigativa

Amina El Joudani
Ingeniera Geofísica

Pili EGEEA
Esritora



EDUCACIÓ CIENTÍFICA INCLUSIVA

Llibres il·lustrats de ciència amb perspectiva inclusiva

ADA MAGNÍFICA, CIENTÍFICA
Andrea Seny (con ilustracions de David Ruberte)
Per què fa tac i per què fa tic?
Per què trone pels aires al tac?
Ada Magnífica té el cap ple de preguntes. Com els seus companys de classe Pedro i Rosa, Ada sempre ha sentit una curiositat insaciable. Però quan porta marxa lluny les seves exploracions i els seus complicats experiments científics, els seus pares s'afarten i la manen al costat de pensar. Tant pensar li farà canviar d'opinió?



WHITE BOOK
on Inclusive Science Education

Towards promoting an inclusive approach in science education

WU | EUR | PA | BIRN

This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No 877104

Jornada d'Educació Científica In...

WANG ZHENYI
(1768-1797)

- Científica xinesa que va estudiar astronomia, matemàtiques, geografia i medicina de manera autodidacta.
- Va escriure 12 llibres d'astronomia i matemàtiques, intentant facilitar el llenguatge per fer el coneixement més accessible a tothom.
- Va desenvolupar diverses teories sobre els equinoccis, la rotació dels astres i els eclipsis a partir d'experiments que construïa ella mateixa al jardí de casa seva.
- L'any 2004 la Unió Astronòmica Internacional va nomenar un cràter de Venus en el seu honor.
- Era aficionada a la poesia i va escriure varis poemes revolucionaris relacionats, entre altres coses, amb la igualtat de gènere:
*Es fa creure
que les dones són iguals que els homes;
No calia convèncer
que les Filles també poden ser heroïnes?*



5. Impacts: Main products and processes

- 6 HUBs -> 15 CLL -> 9 Pilots
- 4 international conferences
- 3 national conferences
- 5 local exhibitions & 1 international exhibition
- 1 functional website & social networks
- At least 1 experts from communities per Hub
- 4 contributions in Books (published and in press)
- 6 Reserch publications (submitted or in press)



5. Impacts: Main products and processes



- Creation & consolidation of cll's
- Intrainstitutional impact (courses, agenda priorities,...)
- New ISE philosophy in partnership projects
- Inter-institutional alliances & impact (local & beyond)
- Training & dissemination events

6. Future outcomes and paths

- International Observatory on Inclusive Education
- New competitive Projects with ISE
- Strategic alliances with public sector, policymakers, communities...
- Continuity of all Hubs & transnational transference processes
- Assessment in new EU ISE Flagship programs
- Snowballing beyond schools: Communication fields, museums, ...
- Intra-institutional change & co-participation with experts from communities

